



Product Information

Antifection inhibitor Cefazedone, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ102

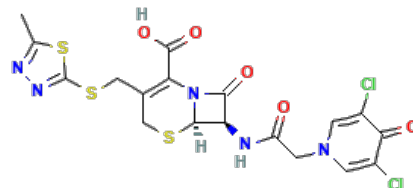
Size: 5 mg; 10 mg; 50 mg

CAS Number: 56187-47-4

Compound CID: 71736

Synonym: 56187-47-4; Antifection inhibitor; Cefazedone; Refosporen; Cefazedonum

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Cefazedone, soluble in DMSO, has strong immunosuppressant properties. It targets β -lactam.
Molecular Weight	548.42
Molecular Formula	$C_{18}H_{15}Cl_2N_5O_5S_3$
Targets	β -lactam
IUPAC Name	(6 <i>R</i> ,7 <i>R</i>)-7-[[2-(3,5-dichloro-4-oxypyridin-1-yl)acetyl]amino]-3-[(5-methyl-1,3,4-thiadiazol-2-yl)sulfanylmethyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid
InChI	InChI=1S/C18H15Cl2N5O5S3/c1-7-22-23-18(33-7)32-6-8-5-31-16-12(15(28)25(16)13(8)17(29)30)21-11(26)4-24-2-9(19)14(27)10(20)3-24/h2-3,12,16H,4-6H2,1H3,(H,21,26)(H,29,30)/t12-,16-/m1/s1
InChI Key	VTLCNEGVSVJLDN-MLGOLLRUSA-N
Canonical SMILES	<chem>CC1=NN=C(S1)SCC2=C(N3C(C(C3=O)NC(=O)CN4C=C(C(=O)C(=C4)Cl)Cl)SC2)C(=O)O</chem>
Isomeric SMILES	<chem>CC1=NN=C(S1)SCC2=C(N3[C@@H]([C@@H](C3=O)NC(=O)CN4C=C(C(=O)C(=C4)Cl)Cl)SC2)C(=O)O</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 95 mg/mL (173.21 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade



Applications

Cefazedone is applied in the investigation of its antibacterial effects, effectively disrupting bacterial cell wall synthesis.

Storage

Store at -20°C, and keep desiccated.
